STIC Biotechnology Systems Branch

RAW SEQUENCE LISTING
ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: _____10/569,766_____

Source: _____JFWP_____

Date Processed by STIC: _____03/06/2006_____

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:
1) **INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,**
2) **TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY**
FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO **REDUCE** ERRORED SEQUENCE LISTINGS, **PLEASE** USE THE **CHECKER VERSION 4.4.0 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:
      http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.
Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.
Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (**<http://www.uspto.gov/ebc/efs/downloads/documents.htm>** , **EFS Submission User Manual** - ePAVE)
2. **U.S. Postal Service:** Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. **Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):**
   U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/10/06

Raw Sequence Listing Error Summary

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

1____Wrapped Nucleics   The number/text at the end of each line "wrapped" down to the next line. This may occur if your file
     Wrapped Aminos   was retrieved in a word processor **after** creating it. Please adjust your right margin to .3; this will
prevent "wrapping."

2____Invalid Line Length   The rules require that a line **not exceed** 72 characters in length. This includes white spaces.

3____Misaligned Amino   The numbering under each 5th amino acid is misaligned. Do **not** use tab codes between numbers;
     Numbering   use **space characters**, instead.

4____Non-ASCII   The submitted file was **not** saved in ASCII(DOS) text, as **required** by the Sequence Rules. **Please
ensure your subsequent submission is saved in ASCII text.**

5____Variable Length   Sequence(s)____contain n's or Xaa's representing more than one residue. **Per Sequence Rules,
each n or Xaa can only represent a single residue.** Please present the **maximum** number of each
residue having variable length and indicate in the <220>-<223> section that some may be missing.

6____PatentIn 2.0   A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid
     "bug"   sequences(s) _____. Normally, PatentIn would automatically generate this section from the
previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to
the subsequent amino acid sequence. **This applies to the mandatory <220>-<223> sections for
Artificial or Unknown sequences.**

7____Skipped Sequences   Sequence(s) _____ missing. If intentional, please insert the following lines for **each** skipped sequence:
     (OLD RULES)   (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
(i)   SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
This sequence is intentionally skipped
Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to **include** the skipped sequences.

8____Skipped Sequences   Sequence(s) _____ missing. If **intentional**, please insert the following lines for **each** skipped sequence.
     (NEW RULES)   <210> sequence id number
<400> sequence id number
000

9____Use of n's or Xaa's   Use of n's and/or Xaa's have been detected in the Sequence Listing.
     (NEW RULES)   Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.

10____Invalid <213>   Per 1.823 of Sequence Rules, the only **valid** <213> responses are: Unknown, Artificial Sequence, or
     Response   scientific name (Genus/species). <220>-<223> section is **required** when <213> response is Unknown or
is Artificial Sequence. (see item 11 below)

11____Use of <220>   ~~Sequence(s)____ missing the <220> "Feature" and associated numeric identifiers and responses.~~ Use
of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown."
Please explain source of genetic material in <220> to <223> section or use "chemically synthesized" as
explanation. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32), also Sec. 1.823 of
Sequence Rules.

12____PatentIn 2.0   Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file,
     "bug"   resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence
listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.

13____Misuse of n/Xaa   "n" can **only** represent a single <u>nucleotide</u>; "Xaa" can **only** represent a single <u>amino acid</u>

IF**WP**

RAW SEQUENCE LISTING DATE: 03/06/2006
PATENT APPLICATION: **US/10/569,766** TIME: 13:35:24

Input Set : **A:\GENOM.032NP.TXT**
Output Set: **N:\CRF4\03062006\J569766.raw**

```
 4 <110> APPLICANT: Crothers, Donald M.
 6 <120> TITLE OF INVENTION: OLIGONUCLEOTIDE SEQUESTERING AGENTS AND
 7       METHODS OF USE
 9 <130> FILE REFERENCE: GENOM.032NP
11 <140> CURRENT APPLICATION NUMBER: US/10/569,766
11 <141> CURRENT FILING DATE: 2006-02-23
11 <150> PRIOR APPLICATION NUMBER: PCT/US2004/027412
12 <151> PRIOR FILING DATE: 2004-08-23
14 <150> PRIOR APPLICATION NUMBER: 60/497,821
15 <151> PRIOR FILING DATE: 2003-08-25
17 <160> NUMBER OF SEQ ID NOS: 26
19 <170> SOFTWARE: FastSEQ for Windows Version 4.0
21 <210> SEQ ID NO: 1
22 <211> LENGTH: 54
23 <212> TYPE: DNA
24 <213> ORGANISM: Homo sapiens
26 <400> SEQUENCE: 1
27 tctgtaagag cagatccctg gacaggcaag gaatacagag ggcagcagac atcg      54
29 <210> SEQ ID NO: 2
30 <211> LENGTH: 27
31 <212> TYPE: DNA
32 <213> ORGANISM: Artificial Sequence
34 <220> FEATURE:
35 <223> OTHER INFORMATION: First complementary nucleic acid
37 <400> SEQUENCE: 2
38 gcctgtccag ggatctgctc ttacaga                                    27
40 <210> SEQ ID NO: 3
41 <211> LENGTH: 22
42 <212> TYPE: DNA
43 <213> ORGANISM: Artificial Sequence
45 <220> FEATURE:
46 <223> OTHER INFORMATION: Second complementary nucleic acid
48 <400> SEQUENCE: 3
49 ggacaaaata cctgtattcc tt                                         22
51 <210> SEQ ID NO: 4
52 <211> LENGTH: 41
53 <212> TYPE: DNA
54 <213> ORGANISM: Artificial Sequence
56 <220> FEATURE:
57 <223> OTHER INFORMATION: n=dideoxyG
59 <220> FEATURE:
60 <223> OTHER INFORMATION: Sequestering agent
62 <400> SEQUENCE: 4
```

(handwritten annotations): CPg-6) Does Not Comply Corrected Diskette Needed CPg 1, 2, 3, 4, 5)

→ Invalid Response. what is the Source of genetic Material. P/s see Item 11 on Error Summary Sheet

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Input Set : **A:\GENOM.032NP.TXT**
Output Set: **N:\CRF4\03062006\J569766.raw**

```
-> 63 gatccctgga caggccggaa gcggcttttt tgccgcttcc n                      41
   65 <210> SEQ ID NO: 5
   66 <211> LENGTH: 41
   67 <212> TYPE: DNA
   68 <213> ORGANISM: Artificial Sequence
   70 <220> FEATURE:
   71 <223> OTHER INFORMATION: Sequestering agent
   73 <400> SEQUENCE: 5
   74 gtgccgagac gttttttcgt ctcggcacta ggaatacagg t                       41
   76 <210> SEQ ID NO: 6
   77 <211> LENGTH: 26
   78 <212> TYPE: DNA
   79 <213> ORGANISM: Artificial Sequence
   81 <220> FEATURE:
   82 <223> OTHER INFORMATION: First complementary nucleic acid
   84 <400> SEQUENCE: 6
   85 ctcccgcaga caccttctcc ttcaag                                        26
   87 <210> SEQ ID NO: 7
   88 <211> LENGTH: 15
   89 <212> TYPE: DNA
   90 <213> ORGANISM: Artificial Sequence
   92 <220> FEATURE:
   93 <223> OTHER INFORMATION: Second complementary nucleic acid
   95 <400> SEQUENCE: 7
   96 tgatgatgaa atcgg                                                    15
   98 <210> SEQ ID NO: 8
   99 <211> LENGTH: 15
  100 <212> TYPE: DNA
  101 <213> ORGANISM: Artificial Sequence
  103 <220> FEATURE:
  104 <223> OTHER INFORMATION: Third complementary nucleic acid
  106 <400> SEQUENCE: 8
  107 tgatgatgaa atcga                                                    15
  109 <210> SEQ ID NO: 9
  110 <211> LENGTH: 39
  111 <212> TYPE: DNA
  112 <213> ORGANISM: Artificial Sequence
  114 <220> FEATURE:
  115 <223> OTHER INFORMATION: n=dideoxyG
  117 <220> FEATURE:
  118 <223> OTHER INFORMATION: First sequestering agent
  120 <400> SEQUENCE: 9
-> 121 ggtgtctgcg ggagcggaag cggcttttg ccgcttccn                         39
  123 <210> SEQ ID NO: 10
  124 <211> LENGTH: 37
  125 <212> TYPE: DNA
  126 <213> ORGANISM: Artificial Sequence
  128 <220> FEATURE:
  129 <223> OTHER INFORMATION: Second sequestering agent
```

Same Error

```
131 <400> SEQUENCE: 10
132 gctgcaccgc ttttttgcgg tgcacccgat ttcatca                          37
134 <210> SEQ ID NO: 11
135 <211> LENGTH: 37
136 <212> TYPE: DNA
137 <213> ORGANISM: Artificial Sequence
139 <220> FEATURE:
140 <223> OTHER INFORMATION: Third sequestering agent
142 <400> SEQUENCE: 11
143 gctgcaccgc ttttttgcgg tgcactcgat ttcatca                          37
145 <210> SEQ ID NO: 12
146 <211> LENGTH: 96
147 <212> TYPE: DNA
148 <213> ORGANISM: Artificial Sequence
150 <220> FEATURE:
151 <223> OTHER INFORMATION: RC probe
153 <400> SEQUENCE: 12
154 gcacctcaaa gctgttccgt cccagttgac tatcctcagt gaattctagc tactggcaat 60
155 ctgatcccta tagtgagtcg tattacaggc acaaac                          96
157 <210> SEQ ID NO: 13
158 <211> LENGTH: 15
159 <212> TYPE: DNA
160 <213> ORGANISM: Artificial Sequence
162 <220> FEATURE:
163 <223> OTHER INFORMATION: Z tag
165 <400> SEQUENCE: 13
166 agctactggc aatct                                                  15
168 <210> SEQ ID NO: 14
169 <211> LENGTH: 20
170 <212> TYPE: DNA
171 <213> ORGANISM: Artificial Sequence
173 <220> FEATURE:
174 <223> OTHER INFORMATION: T7 promoter
176 <400> SEQUENCE: 14
177 ccctatagtg agtcgtatta                                             20
179 <210> SEQ ID NO: 15
180 <211> LENGTH: 6
181 <212> TYPE: DNA
182 <213> ORGANISM: Artificial Sequence
184 <220> FEATURE:
185 <223> OTHER INFORMATION: Eco RI site
187 <400> SEQUENCE: 15
188 gaattc                                                            6
190 <210> SEQ ID NO: 16
191 <211> LENGTH: 3
192 <212> TYPE: DNA
193 <213> ORGANISM: Artificial Sequence
195 <220> FEATURE:
196 <223> OTHER INFORMATION: 3' nucleotide gap
```

RAW SEQUENCE LISTING   DATE: 03/06/2006
PATENT APPLICATION: US/10/569,766   TIME: 13:35:24

Input Set : **A:\GENOM.032NP.TXT**
Output Set: **N:\CRF4\03062006\J569766.raw**

```
198 <400> SEQUENCE: 16
199 gat                                                        3
201 <210> SEQ ID NO: 17
202 <211> LENGTH: 13
203 <212> TYPE: DNA
204 <213> ORGANISM: Artificial Sequence
206 <220> FEATURE:
207 <223> OTHER INFORMATION: Sequence complementary to p53
209 <400> SEQUENCE: 17
210 caggcacaaa cac                                             13
212 <210> SEQ ID NO: 18
213 <211> LENGTH: 24
214 <212> TYPE: DNA
215 <213> ORGANISM: Artificial Sequence
217 <220> FEATURE:
218 <223> OTHER INFORMATION: Sequence complementary to p53
220 <400> SEQUENCE: 18
221 gcacctcaaa gctgttccgt ccca                                 24
223 <210> SEQ ID NO: 19
224 <211> LENGTH: 21
225 <212> TYPE: DNA
226 <213> ORGANISM: Artificial Sequence
228 <220> FEATURE:
229 <223> OTHER INFORMATION: RC primer
231 <400> SEQUENCE: 19
232 gataggagtc acttaagatc g                                    21
234 <210> SEQ ID NO: 20
235 <211> LENGTH: 34
236 <212> TYPE: DNA
237 <213> ORGANISM: Homo sapiens
239 <400> SEQUENCE: 20
240 ctaatctgta agagcagatc cctggacagg caag                      34
242 <210> SEQ ID NO: 21
243 <211> LENGTH: 22
244 <212> TYPE: DNA
245 <213> ORGANISM: Homo sapiens
247 <400> SEQUENCE: 21
248 aaggaataca ggtattttgt cc                                   22
250 <210> SEQ ID NO: 22
251 <211> LENGTH: 14
252 <212> TYPE: DNA
253 <213> ORGANISM: Artificial Sequence
255 <220> FEATURE:
256 <223> OTHER INFORMATION: F5 1698 T7 Probe
258 <400> SEQUENCE: 22
259 gcctgtccag ggat                                            14
261 <210> SEQ ID NO: 23
262 <211> LENGTH: 37
263 <212> TYPE: DNA
```

Same Error (handwritten annotation)

RAW SEQUENCE LISTING   DATE: 03/06/2006
PATENT APPLICATION: US/10/569,766   TIME: 13:35:24

Input Set : A:\GENOM.032NP.TXT
Output Set: N:\CRF4\03062006\J569766.raw

```
264 <213> ORGANISM: Artificial Sequence
266 <220> FEATURE:
267 <223> OTHER INFORMATION: n=dideoxyG
269 <220> FEATURE:
270 <223> OTHER INFORMATION: Sequestering agent
272 <400> SEQUENCE: 23
273 cctggacagg ccggaagcgg ctttttttgcc gcttccn                    37
275 <210> SEQ ID NO: 24
276 <211> LENGTH: 25
277 <212> TYPE: DNA
278 <213> ORGANISM: Homo sapiens
280 <400> SEQUENCE: 24
281 aaggaataca ggtattttgt ccttg                                  25
283 <210> SEQ ID NO: 25
284 <211> LENGTH: 25
285 <212> TYPE: DNA
286 <213> ORGANISM: Artificial Sequence
288 <220> FEATURE:
289 <223> OTHER INFORMATION: Tag probe
291 <400> SEQUENCE: 25
292 caaggacaaa atacctgtat tcctt                                  25
294 <210> SEQ ID NO: 26
295 <211> LENGTH: 40
296 <212> TYPE: DNA
297 <213> ORGANISM: Artificial Sequence
299 <220> FEATURE:
300 <223> OTHER INFORMATION: Sequestering agent
302 <400> SEQUENCE: 26
303 gtgccgagac gttttttcgt ctcggcacaa ggaatacagg                   40
```

-> 273 (circled: Sequestering agent, 270)

-> Same Error

RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 03/06/2006
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<u>ﻭase Note:</u>
ﻭ of n and/or Xaa have been detected in the Sequence Listing. Please review the
ﻭuence Listing to ensure that a corresponding explanation is presented in the <220>
<223> fields of each sequence which presents at least one n or Xaa.

ﻭ#:4; N Pos. 41
ﻭ#:9; N Pos. 39
ﻭ#:23; N Pos. 37

VARIABLE LOCATION SUMMARY   DATE: 03/06/2006
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ͽ of n's or Xaa's(NEW RULES):
ͽ of n's and/or Xaa's have been detected in the Sequence Listing.
ͽ of <220> to <223> is MANDATORY if n's or Xaa's are present.
 <220> to <223> section, please explain location of n or Xaa, and which
ͽidue n or Xaa represents.

ͻ#:4; N Pos. 41
ͻ#:9; N Pos. 39
ͻ#:23; N Pos. 37

VERIFICATION SUMMARY   DATE: 03/06/2006
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Input Set : **A:\GENOM.032NP.TXT**
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```
l1 M:270 C: Current Application Number differs, Replaced Current Application No
l1 M:271 C: Current Filing Date differs, Replaced Current Filing Date
53 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:4
53 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:4
53 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0
121 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:9
121 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:9
121 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:0
273 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:23
273 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:23
273 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:0
```